

AMENDMENTS TO THE CLAIMS

The listing of claims replaces and supersedes all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-9 (Cancelled)

10. (Previously Presented) An embroidery data creation device for creating data of an embroidery stitch, comprising:

drawing input means operated manually by a user for outputting at least a position of the operation, the drawing input means obtaining at least one type of said data from a pressure applied by said user to said drawing input means, a movement velocity of said drawing input means, and an inclination of said drawing input means;

a needle fall point processing unit for generating a needle fall point along a trace constituted by a plurality of said positions input from said drawing input means, in accordance with said data, in parallel with an input of said trace, and such that at least one of an embroidery stitch width, an embroidery stitch density, and an embroidery stitch angle in relation to said trace satisfies a predetermined condition;

means for detecting a curved portion of said trace by determining a curvature of said trace;

means for inputting and storing a correction condition at said curved portion relating to at least one of said stitch width, said stitch density, and said stitch angle, wherein at least one of said stitch width, said stitch density, and said stitch angle is corrected at said curved portion in accordance with said correction condition such that the correction increases as said curvature increases; and

display means for displaying an image of the stitch connecting said needle fall points in parallel with the input of said trace.

11. (Previously Presented) The embroidery data creation device of claim 10, characterized in that said pressure applied by said user to said drawing input means is used as said data.

12. (Previously Presented) The embroidery data creation device of claim 11, characterized in that said stitch width is reduced as said pressure decreases.

13. (Previously Presented) The embroidery data creation device of claim 10, characterized in that said stitch width is corrected in accordance with said correction condition.

14. (Previously Presented) The embroidery data creation device of claim 10, characterized in that said needle fall point processing unit determines an intermediate point by interpolating a section between said plurality of trace positions in accordance with said stitch density, and determines said needle fall points on the basis of said intermediate point such that said stitch is set at a predetermined angle to said trace and a predetermined width.

15. (Previously Presented) The embroidery data creation device of claim 10, further comprising means for storing an input order of said trace such that in an area where a plurality of traces overlap, said needle fall points of a trace having a predetermined input order are deleted.

16. (Previously Presented) The embroidery data creation device of claim 10, further comprising simulation means for simulating said determined stitch by applying at least a brightness level to said determined stitch.

17. (Previously Presented) The embroidery data creation device of claim 16, characterized in that said simulation means comprises means for storing a light source direction, and applies said brightness level to said stitch such that a side near to said stored light source direction is bright, a side far from said stored light source direction is dark, and said brightness level varies in monotone fashion along said stitch.

18. (Previously Presented) An embroidery data creation method for creating data of an embroidery stitch, comprising the steps of:

generating needle fall points along a trace constituted by a plurality of positions input from drawing input means operated manually by a user, in accordance with at least one type of the data from a pressure applied by said user to said drawing input means, a movement velocity

of said drawing input means, and an inclination of said drawing input means, in parallel with the input of said trace, and such that at least one of an embroidery stitch width, an embroidery stitch density, and an embroidery stitch angle in relation to said trace satisfies a predetermined condition;

detecting a curved portion of said trace by determining a curvature of said trace;

storing a correction condition at said curved portion relating to at least one of said stitch width, said stitch density, and said stitch angle;

correcting at least one of said stitch width, said stitch density, and said stitch angle at said curved portion in accordance with said correction condition such that the correction increases as said curvature increases; and

displaying an image of the stitch connecting said needle fall points in parallel with the input of said trace by said drawing input means.

19. (Previously Presented) The embroidery data creation method of claim 18, characterized in that said stitch width is reduced as said pressure applied by said user to said drawing input means decreases.

20. (Previously Presented) The embroidery data creation method of claim 18, characterized in that said stitch width is corrected in accordance with said correction condition.

21. (Currently Amended) A computer-readable medium storing computer-executable instructions for ~~An embroidery data creation program, by performing operations~~ comprising:

~~a needle fall point generation command~~ for generating needle fall points along a trace constituted by a plurality of positions input from drawing input means operated manually by a user, in accordance with at least one type of data from a pressure applied by said user to said drawing input means, a movement velocity of said drawing input means, and an inclination of said drawing input means, in parallel with the input of said trace, and such that at least one of an embroidery stitch width, an embroidery stitch density, and an embroidery stitch angle in relation to said trace satisfies a predetermined condition;

~~a command~~ for detecting a curved portion of said trace by determining a curvature of said trace;

~~a command for storing a correction condition at said curved portion relating to at least one of said stitch width, said stitch density, and said stitch angle, and correcting at least one of said stitch width, said stitch density, and said stitch angle at said curved portion in accordance with said correction condition such that the correction increases as said curvature increases; and~~
~~a display command for displaying an image of a stitch connecting said needle fall points in parallel with the input of said trace by said drawing input means.~~

22. (Currently Amended) The computer-readable medium storing computer-executable instructions for embroidery data creation program of claim 21, ~~characterized in that, in said needle fall point generation command,~~ wherein said stitch width is reduced as said pressure applied by said user to said drawing input means decreases.

23. (Currently Amended) The computer-readable medium storing computer-executable instructions for embroidery data creation program of claim 21, ~~characterized in that~~ wherein said stitch width is corrected in accordance with said correction condition.

24. (New) The embroidery data creation device of claim 10 further comprising means for storing said data of an embroidery stitch on a processor readable medium.

25. (New) The embroidery data creation method of claim 18 further comprising a step of storing said data of an embroidery stitch on a processor readable medium.

26. (New) The computer-readable medium storing computer-executable instructions for embroidery data creation of claim 21, further comprising executable instructions for storing data for said needle fall points on a processor readable medium.